

RBJ Health Center Fuel Cell

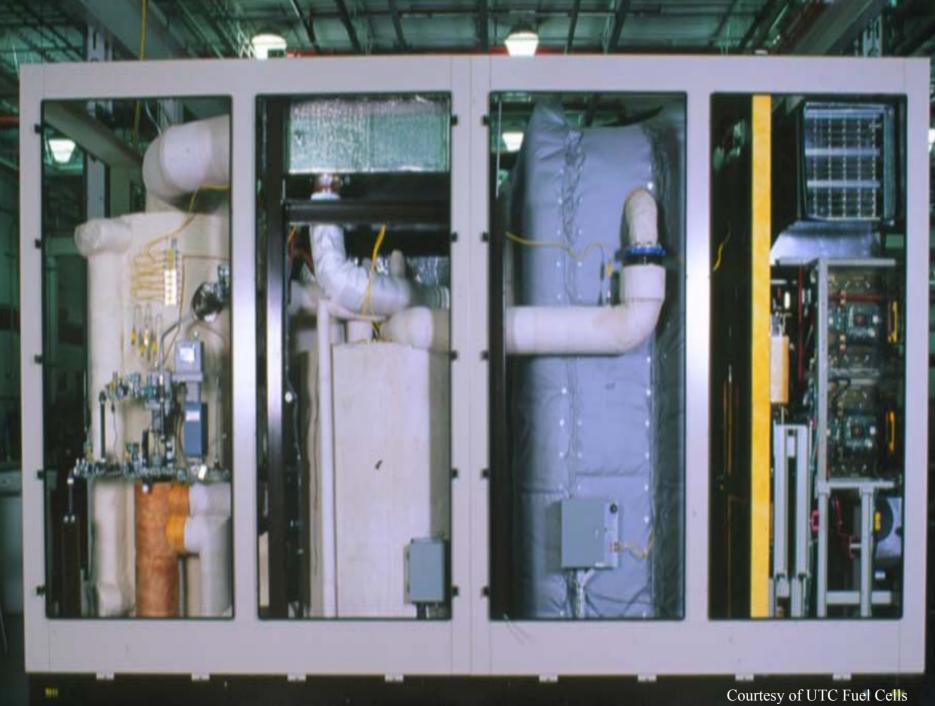


Austin Energy--RBJ Health Center Fuel Cell Project

- United Technologies Corporation (UTC) 200kW Phosphoric Acid Fuel Cell
- Total Installed Cost \$1.2M
- DOD Climate Change Program Grant (\$200,000)

Austin Energy--RBJ Health Center Fuel Cell Project

- First commercial fuel cell feeding the local utility grid in Texas
- Demonstrate benefits of fuel cell from utility and customer perspective
- Learn what issues are important and how to overcome challenges



Rebekah Baines Johnson Health Center Fuel Cell



Characteristics

Indoor/Outdoor Installation
Grid Connected/Grid Independent
Automatic, Unattended Operation
Remote Monitoring, Control & Diagnostics
Direct Connection to City Gas Line
Wide Range of Operating Temperatures
(-30 degrees F – 110 degrees F

Performance

Power Output 200 kilowatts
Heat Available 900,000 Btu/HR
Electric Efficiency 34%
Overall Energy Efficiency* 87%
Negligible Air Emissions
Extremely Quiet Operation

^{*}possible with available waste heat

RBJ Health Center Fuel Cell Performance for First Six Months

858

Total MWH

Total BTU 1.5 Million

Electrical Efficiency 34%

Total Efficiency (CHP) 55%

Availability Factor 99.57%

Capacity Factor 98.1%



1,000,000 BTU/HR Boilers

100 Gallon Water Heater &

Circulating Water Pump

RBJ Health Center



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